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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/886,450	06/21/2001	Shi-Chang Wooh	MIT-117J	5772	
75	10/08/2002				
Iandiorio & Teska 260 Bear Hill Road Waltham, MA 02451-1018			EXAMINER		
			HORTON, YVONNE MICHELE		
			ART UNIT	PAPER NUMBER	
			3635		
			DATE MAILED: 10/08/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

○ Office Action Summary

Application No. 09/886,450

Applicant(s)

SHI-CHANG WOOH ET AL.

aminer

YVONNE M. HORTON

Art Unit **3635**



Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE MAILING DATE OF THIS COMMUNICATION. Estimation of time may be available where the provision of 37 CFR 1.35 (a). In no event, however, may a night, he timely filled after SIX (8) MONTHS from the melling date of this correspondence to the provision of 37 CFR 1.35 (a). If the princip or early procedule above is lass than thiny (30) days, a neph within the statutory minimum of thinty (30) days will be considered timely. If the princip or early procedule above is lass than thiny (30) days, a neph within the set of the communication. If the princip or early procedule are the control of the princip or the communication of the comm		• •					
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DETAILED ACTION

Specification

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Objections

2. Claim 1 is objected to because of the following informalities: In claim 1, line 3, "a" should be deleted. Appropriate correction is required.

Double Patenting

3. Claim 13 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 11. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is not clear from the specification how the enclosure cells are "suspended" if the tension members are connected at the tops and bottoms thereof to hold the enclosure cells in place through tension. Clarification is required

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1,5,7,9,10,12,14,15,17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #3,791,081 to FELCIAI. FELCIAI discloses a building construction including a support structure (2,21) including a support beam; (28), at least one enclosure cell (1,20), and at least one tension member (7,11,22,25). In reference to claim 5, the support beam (28) is linear. Regarding claim 7, there are a plurality of support beams (28) see figure 5. In reference to claim 9, the support beams (28) include cable tension members (7,11,22,25).

 Regarding claim 10, there are a plurality of cable members (7,11,22,25) suspending the enclosure

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cells (1,20). In reference to claim 12, the enclosure cell (1,20) includes a wall (9) and a floor (8).

In reference to claim 14, FELCIAI discloses the method of using tension support members including the steps of providing a support structure by installing a support beam (28), providing at least one enclosure cell (1,20), and suspending the enclosure cell (1,20) with a tension member (7,11,22,25) from the support beam (28). Regarding claim 15, the method steps include installing additional enclosure cells. In reference to claims 17 and 18, there are at least two support beams (28), see figure 5, and the support beams (28) are linear.

8. Claims 1-4,14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #5,634,528 to WATTS et al. WATTS et al. discloses a building construction including a support structure including a support beam (84), at least one enclosure cell (80,81), and at least one tension member (83). In reference to claims 2-4, there are 2-3 support beams in the form of column (84).

In reference to claim 14, WATTS et al. discloses the method of using tension support members including the steps of providing a support structure by installing a support beam (84), providing at least one enclosure cell (80,81), and suspending the enclosure cell (80,81) with a tension member (83) from the support beam (84). Regarding claim 15, the support members (84) are at least two columns (84).

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Claim Rejections - 35 USC § 103

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- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US

 Patent #3,791,081 to FELCIAI. FELCIAI discloses the basic claimed building construction, as

 detailed above, except for the material of the support beam. Although FELCIAI discloses the use
 of steel or concrete support beams, fiber reinforced plastic beams are well known in the art.

 Thus, it would have been an obvious matter of design choice to one having ordinary skill in the
 art at the time the invention was made to select a known material on the basis of its suitability for
 the use intended.

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Allowable Subject Matter

12. Claims 6,8,19 and 20 would be allowable if rewritten to overcome the rejection(s) under

35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the

limitations of the base claim and any intervening claims.

13. The following is a statement of reasons for the indication of allowable subject matter: the

prior art of record fails to teach the use of a building having suspended enclosures wherein the

enclosures are suspended from annular support beams.

14. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Yvonne M. Horton whose telephone number is (703) 308-1909.

YMH

Primary Examiner

September 30, 2002